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(54) Title: LOW NOISE VERTICAL TAKE-OFF AND LANDING (VTOL) UNMANNED AIR VEHICLE (UAV)

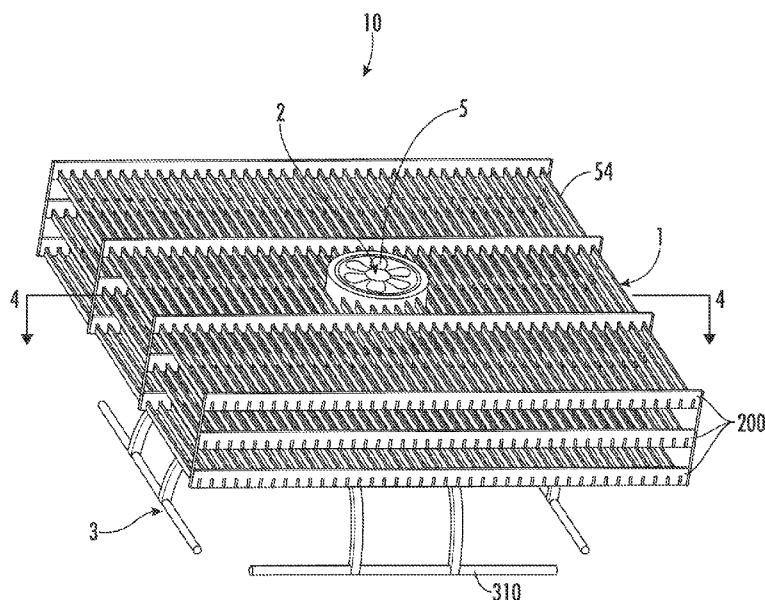


FIG. 1

(57) Abstract: Low noise vertical take-off and landing (VTOL) unmanned air vehicle. A vertical take-off and landing unmanned vehicle which generates low levels of noise includes an ion thruster providing a thrust in a vertical direction, and a thrust vectoring system providing thrust in at least one of a forward, aft, left, and right direction, when the unmanned vehicle is in flight.

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A. CLASSIFICATION OF SUBJECT MATTER

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

See Search History document

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

See Search History document

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

See Search History document

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3,130,945 A (SEVERSKY) 28 April 1964 (28.04.1964), entire document, especially Figs 1, 19, 21; col 2 ln 43-45, 49-53, col 3 ln 11-17, 21-42, col 4 ln 54-55, col 7 ln 53-57, col 8 ln 70-71, col 10 ln 55-59, col 11 ln 23-27, 29-34, 54-55, 71-75, col 12 ln 1-3, 5, 7-9	1-2, 6, 8-9 — 10 — 3-5, 7
Y	KR 20-0197612 Y1 (Tae) 15 September 2000 (15.09.2000), entire document, especially Figs 3-4; pg 2 ln 41-44, 50	10
A		
Y	US 2019/0152625 A1 (Krauss) 23 May 2019 (23.05.2019), entire document	1-10
A		
A	US 2012/0158215 A1 (Sun et al.) 21 June 2012 (21.06.2012), entire document	1-10
A		
A	US 2006/0283171 A1 (Metcalfe, III et al.) 21 December 2006 (21.12.2006), entire document	1-10
A		
A	US 2020/0102100 A1 (Massachusetts Institute of Technology) 2 April 2020 (02.04.2020), entire document	1-10

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